

### Listing of Claims Including Status Indicators

1. (Original) A method for deploying a fiber optic communication network comprising:  
  
storing an attribute of an optical communication component in a catalog database entry;  
  
associating said catalog database entry with a design profile;  
  
selecting said database entry from said design profile;  
  
reading said attribute from said database entry; and  
  
associating said attribute with a planned deployment of a physical instance of said component.
2. (Canceled)
3. (Currently amended) A method as defined in claim 1, further comprising recording said association of said attribute with said planned deployment in a computer memory.
4. (Original) A method as defined in the claim 1, further comprising physically deploying said physical instance of said component.
5. (Original) A method as defined in claim 1 further comprising identifying a geographic location for said planned deployment .

6. (Original) A method as defined in claim 5 further comprising providing a graphical representation of said geographic location and said physical instance .
7. (Original) A method as defined in claim 5 wherein said optical communication component comprises a component selected from the group of an optical cable, an optical cable connector, a splitter, an optical amplifier, an optical repeater, an optical transmitter, an optical splice enclosure, a patch panel, and a splice tray.
8. (Original) A method as defined in claim 1 wherein said optical communication component comprises an optical cable, said optical cable comprising a cable selected from the group of ribbon cable, loose tube buffer cable , central tube cable, odd count fiber cable, single mode fiber cable , multimode fiber cable , and cable including a plurality of fiber types .
9. (Currently amended) A method as defined in claim 8 wherein said optical cable includes a plurality of optical fibers ~~said plurality comprising a number of fibers between about one fiber and about 2600 fibers.~~
10. (Original) A method as defined in claim 1 wherein said planned deployment includes

identification of said instance with an owner.

11. (Original) A method as defined in claim 1 wherein said planned deployment includes identification of said instance with a communication circuit.

12. (Currently Amended) A method as defined in claim 1 wherein said planned deployment includes deploying a plurality of optical communication ~~components~~ components.

13. (Original) A system for planning a network comprising:

a first computer including a first memory storage device having application software encoded therein;

a second computer, operatively connected to said first computer, having a second memory storage device adapted to record first project data;

a third computer, operatively connected to said second computer, having a third memory storage device adapted to record second project data, said first and second project data being substantially instantaneously identical;

said software including a catalog portion, a design profile portion, and a calculations portion;

said catalog portion being adapted to receive data defining a plurality of communication network components;

said design profile portion adapted to receive data defining a plurality of design rules related to logical design of a network; and

said first data including a logical model of a communications network;  
said calculations portion being adapted to calculate power and signal relationships within said communications network.

14. (Original) A system as defined in claim 13, wherein said communications network comprises an optical fiber portion.

15. (Original) A system as defined in claim 14, wherein said optical fiber portion comprises an optical cable having a buffer with first and second optical fibers;  
said optical fibers having different nominal characteristics.

16. (Original) A system as defined in claim 13, wherein said communications network comprises a wireless communication portion.

17. (Original) A system as defined in claim 13, wherein said software further comprises a detail notes portion adapted to record detailed layout of a network within a multiple dwelling unit.

18. (Original) A system for planning a network comprising:  
a computer including a memory storage device having application software encoded therein;

said software including a catalog portion, a design profile portion, a project storage portion, and a calculations portion;

said catalog portion adapted to receive data defining a plurality of communication network components;

said design profile portion adapted to receive data defining a plurality of design rules related to logical design of a network;

said project storage portion adapted to receive data including a logical model of a communications network;

said calculations portion adapted to calculate power and signal relationships within said communications network;

said communications network including an optical fiber portion.

19. (Original) A system for planning a network comprising:

a computer including a memory storage device having application software encoded therein;

said software including a catalog portion, a design profile portion, a project storage portion, and a calculations portion;

said catalog portion adapted to receive data defining a plurality of communication network components;

said design profile portion adapted to receive data defining a plurality of design rules related to logical design of a network;

said project storage portion adapted to receive data including a logical model of a communications network;

said calculations portion adapted to calculate power and signal relationships within said communications network;

said communications network including an optical fiber portion; and

one of said communication network components including an optical cable having a buffer with first and second optical fibers, said optical fibers having different nominal characteristics.

20. (Original) A system for planning a network comprising:

a computer including a memory storage device having application software encoded therein;

said software including a catalog portion, a design profile portion, a project storage portion, and a calculations portion;

said catalog portion adapted to receive data defining a plurality of communication network components;

said design profile portion adapted to receive data defining a plurality of design rules related to logical design of a network;

said project storage portion adapted to receive data including a logical model of a communications network;

said calculations portion adapted to calculate power and signal relationships within said communications network;

said communications network including a wireless communication portion; and

one of said communication network components including an antenna adapted to radiate radio frequency signals.

21. (Original) A method of deploying a communications network comprising:

providing first and second computers including first and second memory storage devices respectively, each having application software encoded therewithin;

operatively connecting said first and second computers through a communications link;

including a logical model of a communications network within said first storage device, said model including first and second logical communication cables, said model depicting operative connection of said first and second cables;

receiving said logical model through said link into said second computer memory device;

representing said logical model graphically; and

operatively connecting first and a second physical communication cables according to said model.

22. (Original) A method as defined in claim 21 further comprising the step of transmitting a notice of completion of said operative connection of physical cables through said link into said first computer.

23. (Original) A method as defined in claim 21 further comprising the step of modifying said graphically represented logical model;

transmitting said modified logical model to said first computer and subsequently receiving authorization for said operatively connecting first and second physical communication cables.

24. (Original) A method as defined in claim 21, wherein said method further comprises:



characterizing the signal strength of a radio frequency signal as a function of geographic location; and

using said characterization to locate a radio frequency antenna.

25. (Original) A method of deploying a communications network comprising:

providing first and second computers including first and second memory storage devices respectively, each having application software encoded therewithin, said second computer being a portable computer;

operatively connecting said first and second computers through a communications link;

including a logical model of a communications network within said first storage device, said model including first and second logical communication cables, said model depicting operative connection of said first and second cables;

receiving said logical model through said link into said second computer memory device;

representing said logical model graphically; and

operatively connecting first and second physical communication cables according to said model.

26. (Original) A method as defined in claim 25 wherein said portable computer comprises a laptop computer.

27. (Original) A method of modeling a fiber optic communication network comprising:

defining a land base map;

defining a first plurality of optical network components including a second plurality of optical cable segments;

associating each component of said first plurality with a location of said land base;

associating each component of said first plurality with at least one other component of said first plurality;

calculating signal loss through at least one segment of said second plurality; and

displaying said land base map and said signal loss calculation result.

28. (New) A system for planning a network comprising:

a computer including a memory storage device having application software encoded therein;

said software including a catalog portion, a design profile portion, a project storage portion, and a calculations portion;

said catalog portion adapted to receive data defining a plurality of communication network components;

said design profile portion adapted to receive data defining a plurality of design rules related to logical design of a network for a particular project;

said project storage portion adapted to receive data including a logical model of a communications network;

said calculations portion adapted to calculate power and signal relationships within said communications network;

said communications network including an optical fiber portion.

29. (New) A system for planning a network comprising:

a computer including a memory storage device having application software encoded therein;

said software including a catalog portion, a design profile portion, a project storage portion, and a calculations portion;

said catalog portion adapted to receive data defining a plurality of communication network components;

said design profile portion adapted to receive data defining a plurality of design rules related to logical design of a network for a particular project;

said project storage portion adapted to receive data including a logical model of a communications network;

said calculations portion adapted to calculate power and signal relationships within said communications network;

said communications network including an optical fiber portion; and

one of said communication network components including an optical cable having a buffer with first and second optical fibers, said optical fibers having different nominal characteristics.

30. (Original) A system for planning a network comprising:

a computer including a memory storage device having application software encoded therein;

said software including a catalog portion, a design profile portion, a project storage portion, and a calculations portion;

said catalog portion adapted to receive data defining a plurality of communication network components;

said design profile portion adapted to receive data defining a plurality of design rules related to logical design of a network for a particular project;

said project storage portion adapted to receive data including a logical model of a communications network;

said calculations portion adapted to calculate power and signal relationships within  
said communications network;

said communications network including a wireless communication portion; and

one of said communication network components including an antenna adapted to  
radiate radio frequency signals.